

64568
Poikilitic Impact Melt
9.38 grams



Figure 1: Photo of 64568 showing numerous zap pits. Sample is about 3 cm across. S72-55370.

Introduction

64568 is a rake sample from the bottom slope of Stone Mountain. It has a poikilitic texture with pyroxene phenocrysts surrounding small laths of plagioclase (figure 2). It was from the surface of the regolith, as illustrated by the zap pits (figure 1).

Simonds et al. (1973) classified 64568 as a poikilitic rock and gave pyroxene data (figure 3). Pearce and Simonds (1974) determined the ratio of Fe metal to Fe silicate.

McKinley et al. (1984) give the chemical composition (in mole percent).

Norman et al. (2006) determined the age by Ar/Ar to be 3.87 b.y. (figure 4).

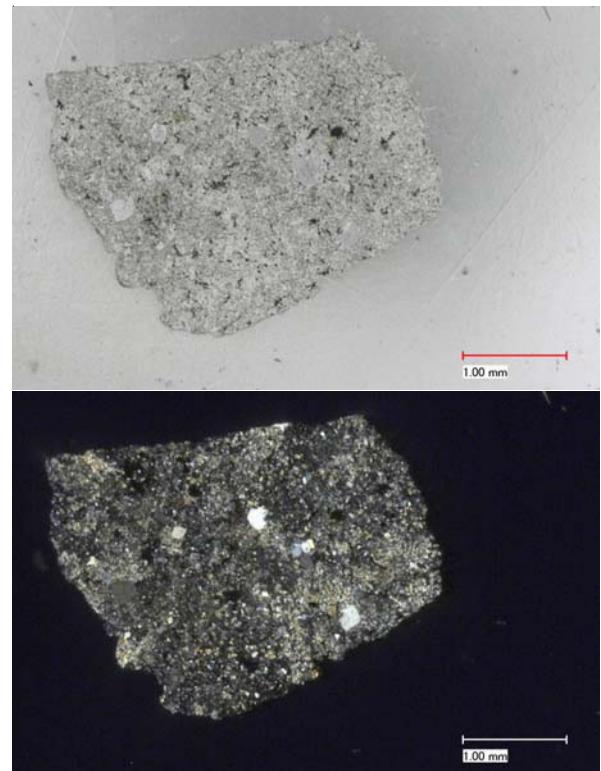


Figure 2: Photomicrographs of thin section 64568,4 by C Meyer @ 50x.

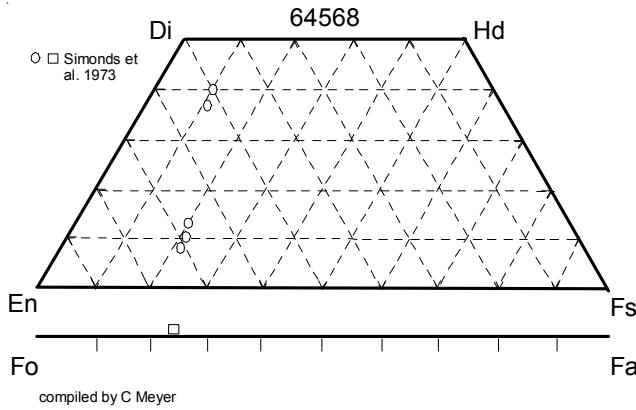


Figure 3: Olivine and pyroxene composition for 64568 (Simonds et al. 1974).

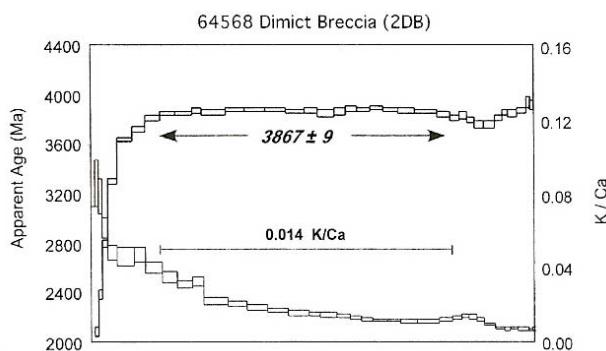
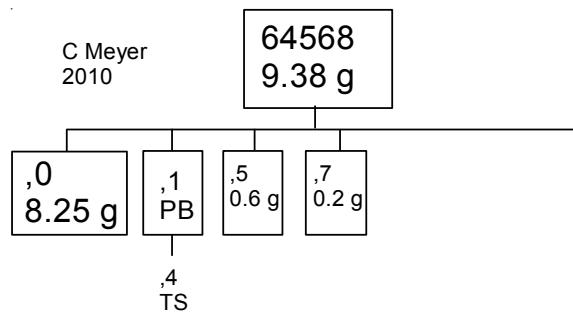


Figure 4: Ar/Ar plateau age for 64568 (Norman et al. 2006).



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